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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,560	08/31/2001	Mitsuyoshi Iwasaki	213007US2	7606
22850 7	7590 07/29/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			NGUYEN, HANH N	
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			2662	-
			DATE MAILED: 07/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/942,560	IWASAKI ET AL.			
		Examiner	Art Unit			
		Hanh Nguyen	2662			
Period fo	The MAILING DATE of this communication		with the correspondence address			
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR IMAILING DATE OF THIS COMMUNICAT insions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory reto reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may tion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) Mey a statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. & 133).			
Status						
1)⊠ 2a)□ 3)□	This action is FINAL. 2b)⊠ This action is non-final.					
Dispositi	ion of Claims					
5)□ 6)⊠	Claim(s) <u>1-19</u> is/are pending in the application of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1-3,5,10-12, 14 and 19</u> is/are reclaim(s) <u>4,6-9,13 and 15-18</u> is/are object Claim(s) are subject to restriction	thdrawn from consideration. ejected. ted to.				
Applicati	on Papers	,				
10)	The specification is objected to by the Extended The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the of the oath or declaration is objected to by the oath or declaration is objected.	accepted or b) objected to the drawing(s) be held in abey correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have been received. uments have been received in e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
	e of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)			
3) 🔯 Inforn	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/5 No(s)/Mail Date <u>8/31/01</u> .ペ リプ2 /0 イ		o(s)/Mail Date Informal Patent Application (PTO-152) 			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted on 8/31/01 under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5, 10, 14 and 19 are rejected under 35 USC 103(a) as being unpatentable over Nakaishi (Pat. 6,757,251 B1) in view of Ahoebeke (Pat. 6,463,075 B1).

In claims 1, 5, 10, 14 and 19, Nakaishi discloses a first optical network system comprising: an OLT 1 (an optical line termination) and a plurality of ONTs 21-23 (optical network units). See Fig.1. Nakaishi discloses, in fig.2, a dynamic cell allocation 6 comprising a band control section 109 (a bandwidth controller) that determines an upstream band such as MCR, PCR of each ONT based on a predetermined condition (assigning predetermined transmission bandwidth to each ONU, col.5, lines 8-15). With respect to an ONT requiring the bandwidth change, band control section 109 transmits the change instruction of the band to cell instruction section 111 (accepts a bandwidth change of the predetermined transmission bandwidth. (See col. 2, lines 53-58). Nakaishi does not disclose the bandwidth controller configured to apportionthe plurality of ONUs between the first optical network and a second optical network.

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Ahoebeke discloses, in fig. 1, a central station CS composing terminals T1-T4 into groups of terminals and assigns a group ID to each group composed (apportioning ONUs between the first Optical network and the seceond optical network). See col.6, lines 18-25. Therefore, it would have been obvious to one ordinary skilled in the art to combine the Ahoebeke 's group of terminal teaching with the Naikashi 's optical network to allocate bandwidth to every ONU, apportion ONUs to each optical network. The motivation is to reserve bandwidth for future use if the ONUs request more bandwidth which will be assigned and reduce bandwidth if the ONUs do not need the bandwidth.

Claims 2, 3, 11 and 12 are rejected under 35 USC 103(a) as being unpatentable over Nakaishi (Pat. 6,757,251 B1) in view of Ahoebeke (Pat. 6,463,075 B1), and futher in view of Foltzer (pat. 6567579 B2).

In claims 2, 3, 11 and 12, Nakaishi does not disclose when a failure occurs in ONUs / paths of said first optical network and said second optical network, said bandwildth control means assigns all transmission bandwidths of said ONUS to the other optical network. Foltzer discloses, in Fig. 5, the host digital terminal switches downstream transmissions from one set of optical paths to another when there is a failure of quality in one of the optical paths. See col.7, lines 15-35. Therefore, it would have been obvious to one ordinary skill in the art to apply the optical path switching of Foltzer into Hvostov et al. so that the bandwidth server can save bandwidth from failure ONUs/paths to the other ONUs to maximize the bandwidth allocation.

Allowable Subject Matter

Claims 4, 13, 6-9 and 15-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

In claims 4 and 13, the prior art does not disclose when apportionment balance is lost of said plurality of ONUS between said first optical network and said second optical network, said bandwidth control means carries out apportionment of said plurality of ONUs between said first optical network and said second optical networkz again.

In claims 6 and 15, the prior art does not disclose said bandwidth control means apportions each of said plurality of ONUS to one of said first optical network and said second optical network such that a sum total of minimum cell rates of said ONUS in said optical network becomes nearly equal to a sum total of minimum cell rates of said ONUS in said second optical network.

In claims 7 and 16, the prior art does not disclose said bandwidth control means apportions each of said plurality of ONUs to one of said first optical network and said second optical network such that a sum total of peak cell rates of said ONUS in said first optical network becomes nearly equal to a sum total of peak cell rates of said ONUs in said second optical network.

In claims 8 and 17, the prior art does not disclose said bandwidth control means apportions each of said plurality of ONUS to one of said first optical network and said

second optical network such that a sum total of differences between peak cell rates and minimum cell rates of said ONUS in said first optical network becomes nearly equal to a sum total of differences between peak cell rates and minimum cell rates said ONUS in said second optical network.

In claims 9 and 18, the prior art does not disclose said bandwidth control means apportions each of said. plurality of ONUS to one of said first optical network and said second optical network such that a sum total of established bandwidths of said ONUs in said first optical network becomes nearly equal to a sum total of established bandwidths of said ONUs in said second optical network.

Response to Arguments

Applicant's arguments with respect to claims 1-3, 5, 10-12, 14 and 19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Touma (Pat. 6,108,112) discloses Method and Apparatus for failure recorvery in PON.

Quale (Pat. 6317234 B1) discloses Communication Network.

Matsunaga et al. (pat. 6,434,164 B1) discloses Multiple Access Communication System capable of Measuring and guaranteeing a service quality Supplied for each service permitted to subscriber Stations.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 5712738300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen

HANH NGUYEN
PRIMARY EXAMINER